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Subj: MODIS SDST Minutes 12/20/91

MODIS Science Data Support Team (SDST) Meeting Minutes 12/20/91

ATTENDEES: Lloyd Carpenter   RDC   982-3708
              Al Fleig   900   286-7747
              Harold Geller   MCST/RDC   982-3740
              Tom Goff   RDC   982-3704
              Liam Gumley   RDC   982-3748
              Lou Kouvaris   Hughes   464-7365
              Ed Masuoka   920   286-7608
              Al McKay   RDC   982-3720
              Jim Ormsby   974   286-6811
              Lalit Wanchoo   STX   513 1682

NEXT MEETING: Date   Time   Building   Room
              Friday, January 3   10:00 am   22   G95

There will be no MODIS SDST meeting on Friday, December 27, 1991.
Beginning Friday, January 3, 1992, the meetings will be held in
the Laboratory for Terrestrial Physics Conference Room, Building
22, Room G95.

TOPICS:

1. PR:QA QUALITY ASSURANCE SOFTWARE: The Programming Research
Corporation generated a "Software Quality Report" on the MAS
Fortran code as a demonstration of their quality assurance
software. This tool provides reliability checking, portability
checking, standards compliance checking, complexity analysis, and
ANSI Fortran compatibility checking. Use of this software by EOS
Science Team Members on code to be ported to EOSDIS would be very
helpful for identifying and fixing potential problems at an early
stage. PR:QA has a comparable tool for analysis of C code.
Problems associated with passing parameters between C and Fortran
could still present difficulties.

2. MODIS DATA PROCESSING/REGISTRATION REQUIREMENTS: Jim Ormsby presented an updated version of his list of questions relating to MODIS image registration and data processing. An interesting table was included showing the size of the display resulting from the use of various scales for global and sub-global grids. Jim will check with Bruce Guenther as to whether the questions are appropriate and complete.

3. EOS ORBIT SELECTION: Al Fleig brought a copy of a paper (provided by Harold Geller) by Daren Casey and JoBea Way of JPL on "Orbit Selection for the EOS Mission and its Synergism Implications" (IEEE Trans. Vol. 29 No. 6, Nov 1991). Copies will be provided to interested SDST members.

4. MODIS AIRBORNE SIMULATOR (MAS): Liam Gumley reported that an 8mm Exabyte tape containing 17 processed MAS flight tracks of data taken on 11/12/91 and 11/14/91 was delivered to Mike King.

An anonymous FTP site is now operational on LTPIRIS2, and programmers for Mike King, John Barker, and Dorothy Hall have been notified. An introduction to the files at this site was included in the handout.

A new set of calibration coefficients (differing by a few percent from the original) was received from Tom Arnold, but it was decided to continue processing with the originals until a final set of coefficients is released.

Tom Goff has gone through the MAS processing steps and will be able to process MAS data during Liam's absence (until January 16th) if necessary.

5. PORTING NETCDF XDR SOURCE FILES: In the process of porting the NetCDF XDR source files to/from PC's and the Mac, Tom Goff encountered the problem of variations in record terminators. To solve this problem, Tom has modified a file dumping utility, written in C, to read files in binary mode and decode the contents in mnemonic form, integer form, or floating point form. The program, which will perform file offset and dump size

specifications, should be available soon.

6. THE (TLCF): Al McKay presented an updated table of near-term communications requirements for the TLCF, modified software hierarchy for the near-term TLCF, and some notes on TLCF communications topics.

7. MODIS SDST FY92 WORK PLAN: Lloyd Carpenter presented a strawman MODIS SDST FY92 schedule and a network of SDST tasks generated using Microsoft Project. The Microsoft Project software is very helpful in project planning, tracking and updating.

ACTION ITEMS:

08/30/91 [Lloyd Carpenter and Team]: Draft a schedule of work for the next 12 months. Include primary events and milestones, documents to be produced, software development, MAS support, etc. (The work Plan has been entered into Microsoft Project. A strawman schedule and network were included in the handout.) STATUS: Open. Due date 09/27/91.

12/06/91 [Liam Gumley]: Investigate a cataloguing scheme for the MAS data. Consider the Master Catalogue, PLDS and PCDS. STATUS: Open. Due date 02/14/92.

12/06/91 [Liam Gumley, Tom Goff, Ed Masuoka]: Develop a plan for storing and distributing MAS data. STATUS: Open. Due date 02/14/92.